## Claims

A method of processing an edge of a substrate, comprising:
supporting the substrate by an edge roller, the edge roller including a proximity head;

forming a meniscus inside a concave portion of the proximity head, the concave portion being capable of receiving at least a portion of an edge of the substrate; and

moving the meniscus onto the edge of the substrate.

- 2. The method of claim 1, further comprising moving the meniscus off of the edge of the substrate.
- 3. The method of claim 1, wherein moving the meniscus onto the edge of the substrate includes rotating the proximity head about an axis of the proximity head.
- 4. The method of claim 1, wherein moving the meniscus onto the edge of the substrate includes moving the meniscus relative to the edge of the substrate.
- 5. The method of claim 1, wherein moving the meniscus includes increasing the size of the meniscus.
- 6. The method of claim 1, wherein the edge of the substrate includes a circumferential edge of the substrate and the meniscus encompasses at least a portion of the circumference of the substrate.
- 7. The method of claim 1, wherein the meniscus encompasses the edge of the substrate within the portion of the circumference of the substrate.

- 8. The method of claim 7, wherein the meniscus encompasses at least one of a top surface edge exclusion zone and a bottom surface edge exclusion zone.
- 9. The method of claim 1, further comprising moving the meniscus along the edge of the substrate.
- 10. A system for processing an edge of a substrate comprising: an edge roller;
- a first proximity head mounted on the edge roller, the first proximity head capable of forming a meniscus, the first proximity head including:
- a concave portion, the concave portion capable of receiving an edge of a substrate; and
- a plurality of ports opening into the concave portion, the plurality of ports including:

at least one process liquid injection port; at least one vacuum port; and at least one surface tension control port.

- 11. The system of claim 10, wherein the edge of the substrate includes a circumferential edge of the substrate and the first proximity head is capable of forming a meniscus capable of covering at least a portion of the circumference of the substrate.
- 12. The system of claim 10, wherein the edge roller is mounted on a first axis and the first proximity head is mounted on a second axis.
- 13. The system of claim 12, wherein the first axis and the second axis are concentric.
- 14. The system of claim 12, wherein the first axis and the second axis can be rotated independently.

- 15. The system of claim 10, further comprising a second proximity head.
- 16. The system of claim 15, wherein the edge of the substrate includes a circumferential edge and wherein the first proximity head and the second proximity head are capable of being positioned over the circumferential edge.
- 17. The system of claim 16, wherein the first proximity head and the second proximity head are capable of being independently positioned over the circumferential edge.
- 18. The system of claim 16, wherein the first proximity head is capable of locating a first meniscus on the edge of the substrate before the edge of the substrate contacts the edge roller and the second proximity head is capable of locating a second meniscus on the edge of the substrate after the edge of the substrate contacts the edge roller.
- 19. The system of claim 10, further comprising an actuator coupled to the first proximity head, the actuator capable of moving the first proximity head.
- 20. A system for processing an edge of a substrate comprising: an edge roller mounted on a first axis;
- a first proximity head mounted on a second axis, the second axis being concentric with the first axis, the first proximity head capable of forming a meniscus, the first proximity head including:
- a concave portion, the concave portion capable of receiving an edge of a substrate; and
- a plurality of ports opening into the concave portion, the plurality of ports including:

at least one process liquid injection port; at least one vacuum port; and at least one surface tension control port; and an actuator coupled to the second axis, the actuator capable of moving the second axis the axis capable of being rotated independently from the first axis.

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